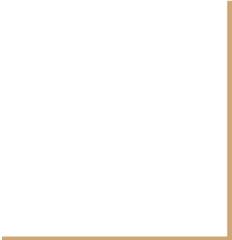




Utilizing GLM to Diagnose Marginal Convective Events

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Questions

- Higher-end events tend to get a lot of focus, but what about marginal events?
- Can the warning decision process be enhanced for said marginal events by incorporating GLM into the mesoanalysis process?

	Very Low	Low	Moderate	High
Effective Bulk Shear Magnitude (kts)	< 25	25 - 35	35 - 50	50+
MUCAPE (J/kg)	< 1000	1000 - 2000	2000 - 4000	4000+
MLCAPE (J/kg)	< 500	500 - 1000	1000 - 4000	4000+
MLCIN (J/kg)	< -150	-150 to -100	-50 to -25	-25 or less

[locally modified]
Near-Storm Environment (NSE)
Mesoanalyst Checklist

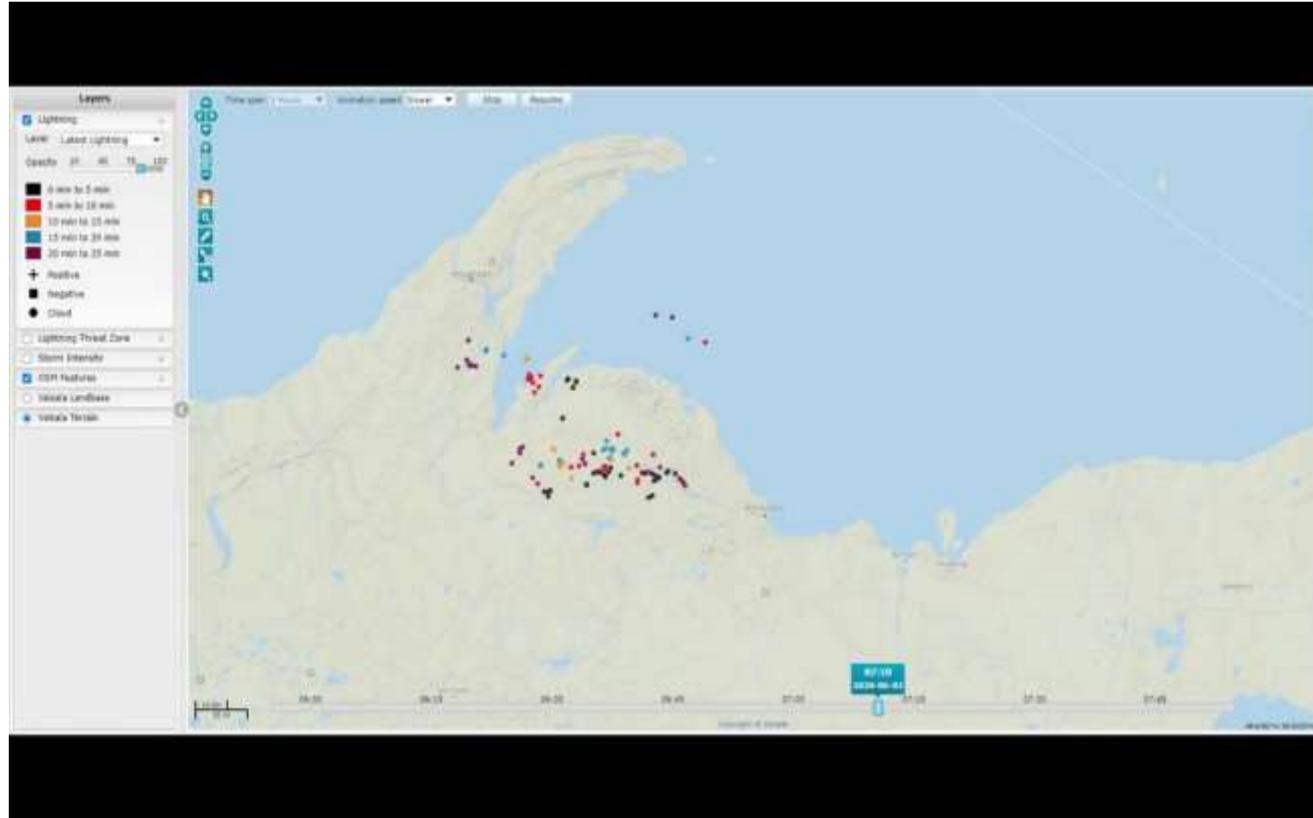
June 2nd, 2020

Examinations

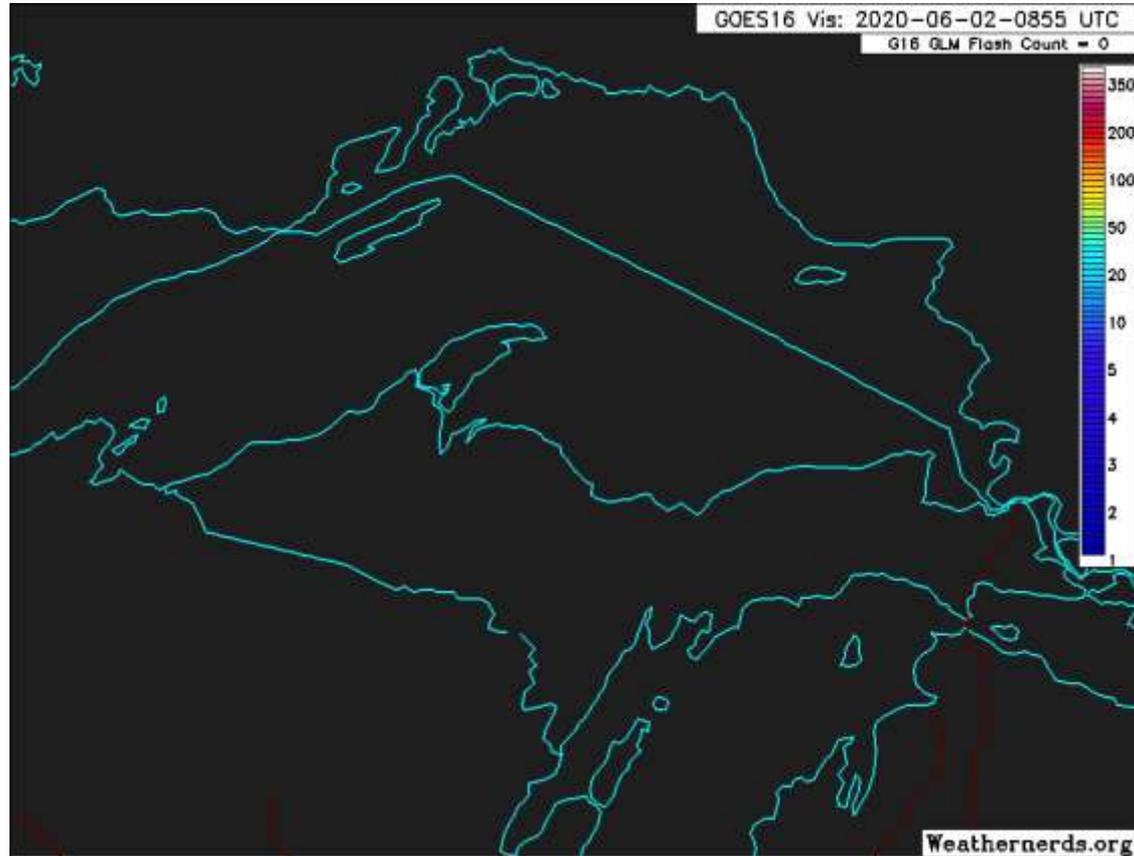
Highlighted Events

- April 7th
- June 2nd
- August 26th
- August 31st

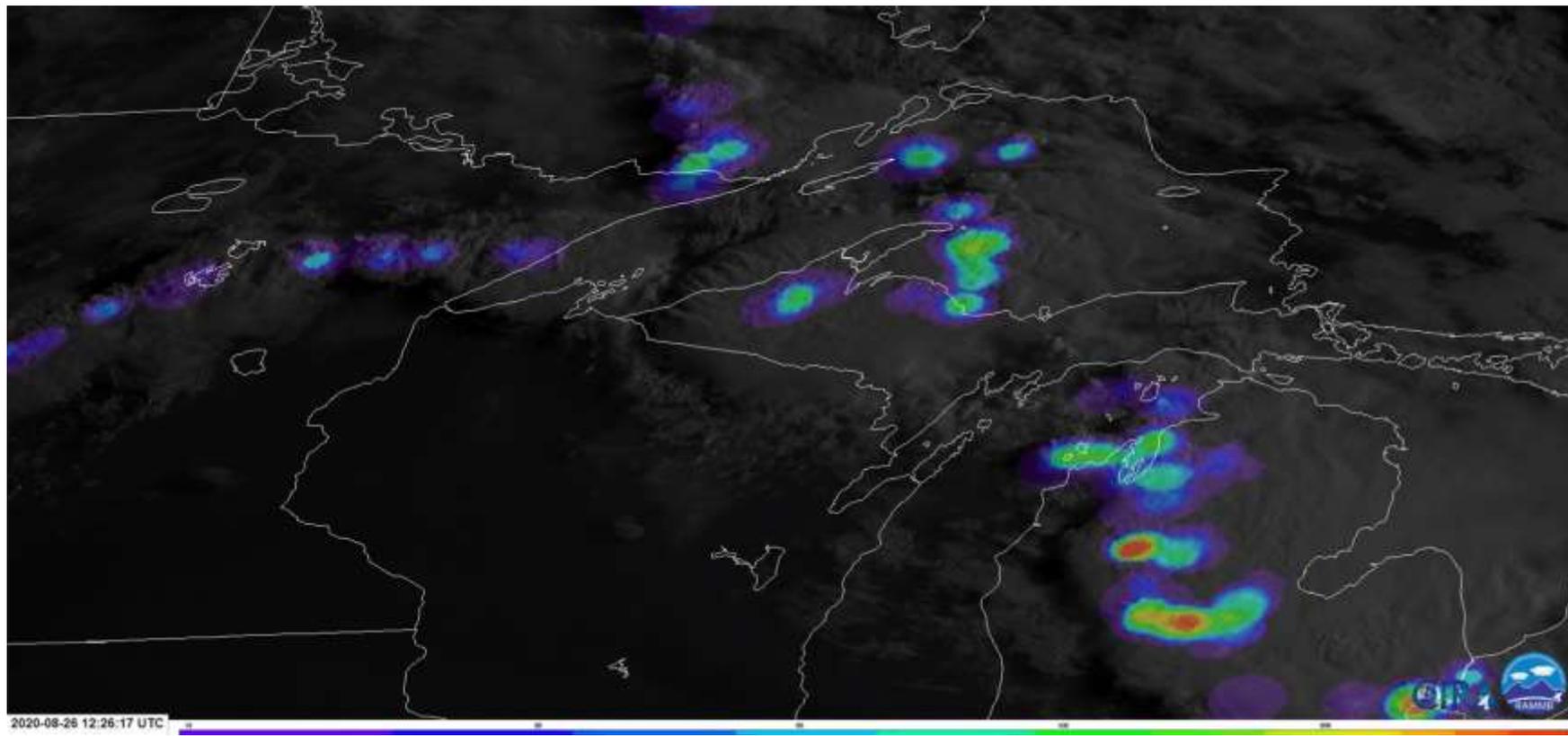
- July 18th - 19th



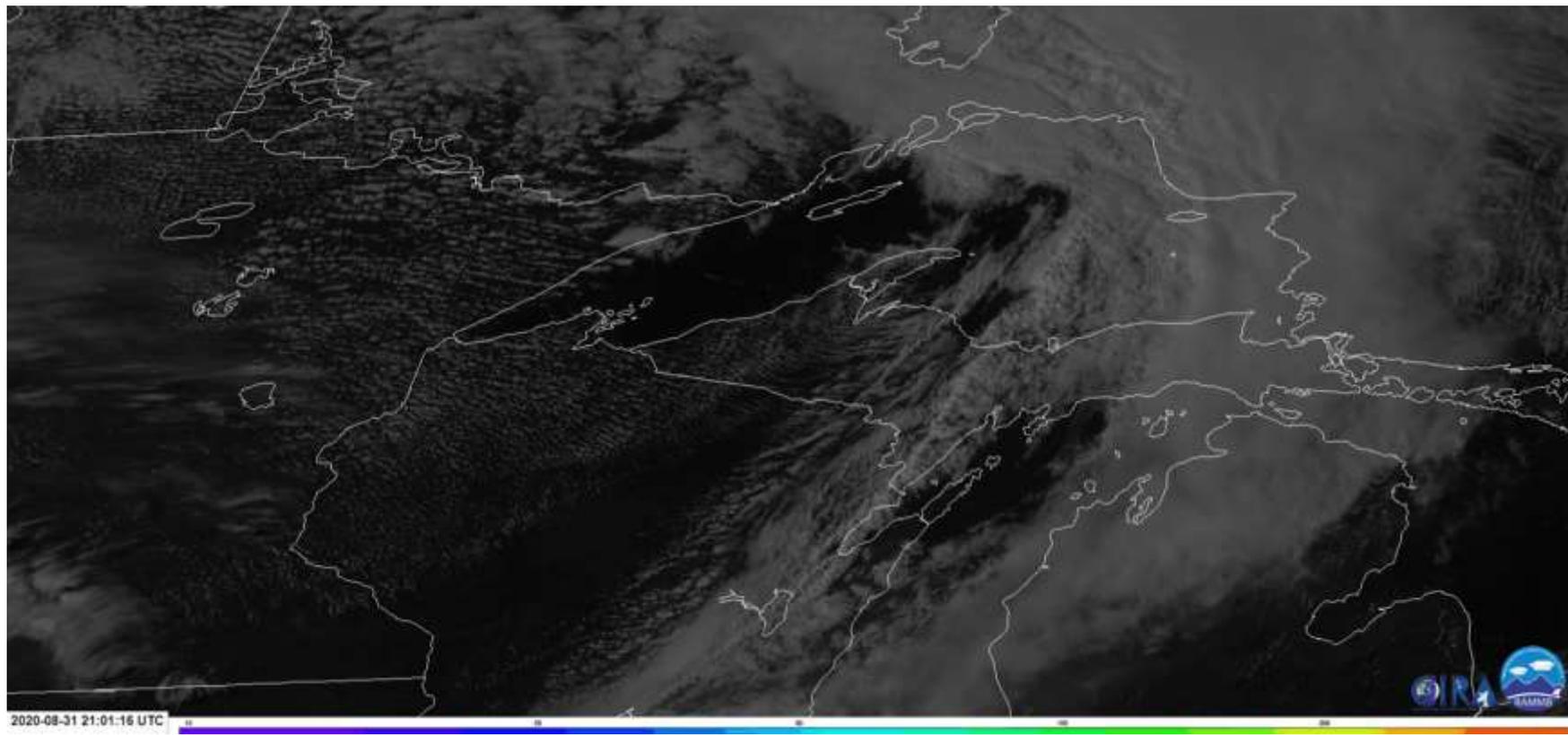
June 2nd



August 26th



August 31st



Conclusions & Future Work

The dream: the creation & emergence of a GR-equivalent tool for satellite imagery.